## WE CLAIM:

- 1. An alkaline detergent composition comprising:
- (a) an effective soil removing amount of a source of alkalinity; and
  - (b) an effective soil removing amount of a nonionic surfactant blend comprising:
    - (i) a nonionic surfactant comprising a hydrophobic group and an  $-(EO)_x$  group, wherein x is a number of about 1 to 100; and
    - (ii) a nonionic silicone surfactant comprising a hydrophobic silicone group and a pendent hydrophilic polyalkylene oxide group;

wherein the detergent exhibits enhanced waxy-fatty soil removing capacity.

2. The detergent of claim 1 wherein the detergent comprises a solid block having a mass of at least 100 grams.

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- 3. The detergent of claim 2 wherein the detergent is packaged within a flexible wrapping.
- 4. The detergent of claim 1 comprising a powder.

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5. The detergent of claim 1 comprising a pellet.

6. The detergent of claim 1 wherein the silicone surfactant has the formula:

5  $R_3Si-O-(R_2SiO)_x(R_2SiO)_y-SiR_3$  | PE

- wherein PE represents  $-CH_2-(CH_2)_p-O-(EO)_m(PO)_n-Z$ , x is a number that ranges from about 0 to about 100, y is a number that ranges from about 1 to 100, p is 0 to 6, m and n are numbers that range from about 0 to about 50,  $m+n\geq 1$ , and Z represents hydrogen or R and each R independently represents a lower  $(C_{1-6})$  alkyl.
  - 7. The detergent of claim 6 wherein the source of alkalinity comprises an alkali metal hydroxide.
  - 20 8. The detergent of claim 3 wherein the source of alkalinity comprises an alkali metal carbonate.
    - 9. The detergent of claim 1 wherein the detergent additionally comprises a hardness sequestering agent.

10. The detergent of claim 1 wherein the silicone surfactant has the formula:

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$$\begin{array}{c} \text{CH}_{3} & \text{CH}_{3} \\ \text{H}_{3}\text{C} - \overset{!}{\text{Si}} - \text{O} & \overset{!}{\text{Si}} - \text{O} \\ \overset{!}{\text{CH}_{3}} & \overset{!}{\text{Si}} - \text{O} \\ \overset{!}{\text{CH}_{3}} & \overset{!}{\text{Si}} - \text{O} \\ \overset{!}{\text{CH}_{3}} & \overset{!}{\text{Si}} - \text{CH}_{3} \\ \overset{!}{\text{CH}_{3}} & \overset{!}{\text{CH}_{3}} \\ & \overset{!}{\text{CH}_{3}} & \overset{!}{\text{CH}_{3}} \\ & \text{O-PA} & \overset{!}{\text{CH}_{3}} \\ & \text{PA} = -(\text{C}_{2}\text{H}_{4}\text{O})_{a}(\text{C}_{3}\text{H}_{6}\text{O})_{b}\text{R} \text{ or} \\ & \overset{!}{\text{OH}} & \overset{!}{\text{CH}_{3}} \\ & -\text{CH}_{2} - \overset{!}{\text{CH}} - \text{CH}_{2} - \overset{!}{\text{CH}_{3}} \\ & \overset{!}{\text{CH}_{3}} & \overset{!}{\text{CH}_{3}} \\ & \overset{$$

wherein x represent a number that ranges from about 0 to about 100, y represent a number that ranges from about 1 to about 100, a and b represent numbers that independently represent numbers that range from about 0 to about 60,  $a+b \ge 1$  and R is hydrogen or a lower  $(C_{1-6})$  alkyl.

- 15 11. The detergent of claim 1 wherein the nonionic surfactant comprises a linear alcohol ethoxylate or an alkylphenolethoxylate.
- 12. The detergent of claim 1 wherein the nonionic surfactant comprises a benzyl capped  $C_{8-12}$  linear alcohol 6 to 16 mole ethoxylate.
  - 13. The detergent of claim 1 wherein the sequestrant comprises an amino trialkylene phosphonic acid sodium salt.

14. The detergent of claim 13 wherein the sequestrant additionally comprises a 2-phosphono-butane-1,2,4-tricarboxylic acid sodium salt, 1-hydroxyethylidene-1,1-diphosphonic acid, diethylenetriamine-penta(methylenephosphonic acid) or mixtures thereof.

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- 15. The detergent of claim 1 wherein the sequestrant comprises sodium tripolyphosphate and amino trimethylene phosphonic acid sodium salt, 2-phosphono-butane-1,2,4-tricarboxylic acid, 1-hydroxyethylidene-1,1-diphosphonic acid, diethylenetriamine-penta(methylenephosphonic acid) or mixtures thereof.
- 16. The detergent composition of claim 2, wherein the detergent comprises
  - (a) about 5 to 60 wt% of Na<sub>2</sub>CO<sub>3</sub>; and
  - (b) about 1 to 25 wt% of a hardness sequestering agent selected from the group consisting of sodium tripolyphosphate, an organic phosphonate sequestrant, and mixtures thereof;

wherein the solid block detergent has a mass of at least 0.5 kilograms.

- 25 17. The detergent of claim 16 wherein the phosphonate sequestrant comprises an amino trimethylene phosphonic acid sodium salt.
- 18. The detergent of claim 17 wherein the sequestrant additionally comprises a 2-phosphono-butane-1,2,4-

tricarboxylic acid sodium salt, 1-hydroxyethylidene-1,1-diphosphonic acid, diethylenetriamine-penta(methylenephosphonic acid) or mixtures thereof.

- 5 19. The detergent of claim 14 wherein the detergent is packaged in a flexible polyolefin film.
- 20. A solid block detergent composition, the detergent comprising:
  - (a) an effective soil removing amount of a source of alkalinity;
  - (b) an effective amount of a hardness sequestering agent; and
- 15 (c) an effective soil removing amount of nonionic surfactant composition comprising:
  - (i) a nonionic surfactant comprising a hydrophobic group and an  $-(EO)_x$  group, wherein x is a number of about 1 to 60 group; and
- 20 (ii) a silicone surfactant comprising a hydrophobic silicone group and a pendent hydrophilic polyalkylene oxide group;

wherein the block has a mass of at least 100 grams and is packaged within a flexible wrapping and the detergent

25 exhibits enhanced waxy-fatty soil cleaning capacity.

21. The detergent of claim 20 wherein the silicone surfactant has the formula:

$$R_3Si-O-(R_2SiO)_x(R_2SiO)_y-SiR_3$$
 $|$ 
PE

- wherein PE represents  $-CH_2-(CH_2)_p-O-(EO)_m(PO)_n-Z$ , x is a number that ranges from about 0 to about 100, y is a number that ranges from about 1 to 100,  $x+y\ge 1$ , p is 0 to 6, m and n are numbers that range from about 0 to about 50,  $m+n\ge 1$ , and Z represents hydrogen or R and each R represents a lower  $(C_{1-6})$  alkyl.
  - 22. The detergent of claim 20 wherein the silicone surfactant has the formula:

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$$\begin{array}{c} CH_{3} \\ CH_{4} \\ CH_{3} \\ CH_{4} \\ CH_{4} \\ CH_{5} \\ CH_{5$$

wherein x represent a number that ranges from about 0 to about 100, y represent a number that ranges from about 1 to about 100,  $x+y \ge 1$ , a and b represent numbers that independently represent numbers that range from about 0 to about 60,  $a+b \ge 1$  and R is hydrogen or a lower  $(C_{1-6})$  alkyl.

23. The detergent of claim 20 wherein the nonionic surfactant comprises a linear alcohol ethoxylate or an alkylphenol-ethoxylate.

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- 24. The detergent of claim 20 wherein the nonionic surfactant comprises a benzyl capped  $C_{8-12}$  linear alcohol 6 to 16 mole ethoxylate.
- 15 25. The detergent of claim 20 wherein the sequestrant comprises an amino trialkylene phosphonic acid sodium salt.
- 26. The detergent of claim 25 wherein the sequestrant additionally comprises a 2-phosphono-butane-1,2,4tricarboxylic acid sodium salt, 1-hydroxyethylidene-1,1-diphosphonic acid, diethylenetriamine-penta (methylenephosphonic acid) or mixtures thereof.
- 27. The detergent of claim 20 wherein the sequestrant
  25 comprises an amino trialkylene phosphonic acid sodium salt
  or a 2-phosphono-butane-1,2,4-tricarboxylic acid sodium
  salt 1-hydroxyethylidene-1,1-diphosphonic acid,
  diethylenetriamine-penta(methylenephosphonic acid) or
  mixtures thereof.

- The detergent of claim 20 wherein the sequestrant comprises sodium tripolyphosphate and amino trimethylene phosphonic acid sodium salt, 2-phosphono-butane-1,2,4tricarboxylic acid or mixtures thereof.
- The detergent composition of claim 20, wherein the detergent comprises:
  - about 5 to 60 wt% of Na<sub>2</sub>CO<sub>3</sub>; and (a)

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- about 1 to 25 wt% of a hardness sequestering agent selected from the group consisting of sodium tripolyphosphate, an organic phosphonate sequestrant, and mixtures thereof;
- wherein the solid block detergent has a mass of at least 15 0.5 kilograms.
  - The detergent of claim 20 wherein the detergent is 30. packaged in a flexible polyolefin film.

The detergent of claim 1 wherein the nonionic surfactant comprises a benzyl capped  $C_{8-12}$  linear alcohol 6

to 16 mole ethoxylate.